

## CLAIMS

We claim:

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1. An improved phone <sup>jack</sup> ~~plug~~ for a phone line system including a data network; said phone jack comprising:
- 5 a housing having a rear-receiving end and a plugging end, a plug-receiving socket formed in said rear-receiving end and adapted to receive a modular phone plug; said plugging end being so formed that said plugging end can be plugged into a
- 10 regular phone jack coupled to said phone line system including said data network;
- a number of inductors; and
- <sup>n number of conductors</sup>  
~~n conductors~~ mounted in said housing and having first ends and second ends; said first ends projecting into said plug-receiving socket for engaging a contact of said modular phone
- 15 plug when said modular phone plug is inserted into said socket; said second ends coupled respectively to said plugging end through said inductors.
2. The improved phone jack as recited in claim 1; wherein said number is  $n$  such that each of said conductors is coupled to said plugging end through one of said inductors.
- 20 3. The improved phone jack as recited in claim 2; wherein  $n$  is 4 such that said plugging end can be plugged into said regular phone jack in a residential home.
- 25 4. The improved phone jack as recited in claim 1; wherein said number is  $n/2$  such that every other one of said conductors is

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coupled to said plugging end through one of said inductors and the rest of said conductors are coupled to said plugging end directly.

- 5            5. The improved phone jack as recited in claim 4; wherein  $n$  is 4 such that said plugging end can be plugged into said regular phone jack in a residential home.

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- 10            6. An improved phone <sup>jack</sup>~~plug~~ for a phone line system including a data network; said phone jack comprising:
- a housing having a rear-receiving end and a plugging end, a number of plug-receiving sockets formed individually in said rear-receiving end and each adapted to receive a modular phone plug; said plugging end being so formed that said
- 15            plugging end can be plugged into a regular phone jack coupled to said phone line system including said data network;
- $n$  groups of inductance circuits; and
- $n$  groups of conductors mounted in said housing; each of said conductors having first ends and second ends; said first
- 20            ends projecting into one of said plug-receiving socket for engaging a contact of said modular phone plug when said modular phone plug is inserted into said one of said plug-receiving socket; said second ends coupled respectively to said
- plugging end through one of said groups of said inductance
- 25            circuits.

7. The improved phone plug as recited in claim 6, wherein each of said inductance circuits comprises an inductor.

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8. An improved phone plug for a phone line system including a data network; said phone jack comprising:

a housing having a rear-receiving end and a plugging end, a first plug-receiving socket and a second plug-receiving socket formed individually in said rear-receiving end, wherein said first plug-receiving socket is adapted to receive a first modular phone plug from a phone device; said second plug-receiving socket is adapted to receive a second modular phone plug from a computing device;

said plugging end being so formed that said plugging end can be plugged into a regular phone jack coupled to said phone line system including said data network;

$n$  inductors; and

a first group and a second group of  $n$  conductors mounted respectively in said housing and having first ends and second ends; said first ends of said first group of  $n$  conductors projecting into said first plug-receiving socket for engaging a contact of said first modular phone plug when said first modular phone plug is inserted into said first plug-receiving socket; said second ends of said first group of  $n$  conductors coupled respectively to said plugging end through said  $n$  inductors.

9. The improved phone plug as recited in claim 8, wherein said first ends of said second group of  $n$  conductors projecting into said second plug-receiving socket for engaging a contact of said second modular phone plug when said second modular phone plug is inserted into said second plug-receiving socket; said second ends of said second group of  $n$  conductors coupled to said plugging end directly.

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10. The improved phone ~~plug~~ as recited in claim 9, wherein said first plug-receiving socket is visually labeled for a phone device and said second plug-receiving socket is visually labeled for a computing device.

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